

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-18 (Canceled)

¹
Claim ~~19~~ (Previously added): An isolated CD39L4 polynucleotide comprising the nucleotide sequence of SEQ ID NO: 5.

²
Claim ~~20~~ (Currently amended): An isolated polynucleotide comprising the nucleotide sequence of SEQ ID NO: 5 that encodes ~~encoding~~ the amino acid sequence of SEQ ID NO: 6.

³
Claim ~~21~~ (Currently amended): An isolated polynucleotide comprising the a-nucleotide sequence of SEQ ID NO: 5 that encodes ~~encoding a fragment of~~ the amino acid sequence of SEQ ID NO: 6, or the mature protein portion thereof, said amino acid sequence fragment having phosphohydrolase activity.

Claim 22 (Canceled)

²
Claim 23 (Currently amended): An isolated polynucleotide encoding a polypeptide having phosphohydrolase activity, said polynucleotide comprising a nucleotide sequence that has at least ~~about~~ 90% sequence identity to SEQ ID NO: 5.

⁴
Claim ~~24~~ (Currently amended): An isolated polynucleotide encoding a polypeptide having phosphohydrolase activity, wherein said polynucleotide hybridizes under highly stringent conditions, wherein said conditions are hybridization to a filter-bound DNA in 0.5 M NaHPO₄, 7% sodium dodecyl sulfate (SDS), 1 mM EDTA at 65°C, and washing in 0.1X SSC/0.1% SDS at 68°C, to the complement of SEQ ID NO: 5.

C ⁵
Claim ~~25~~⁵ (Currently amended): The polynucleotide according to any one of claims ~~20, 21, 23~~³ or ~~24~~⁴ that comprises nucleotides 247-1530, 385-450, 613-660, 745-807 or 823-888 of SEQ ID NO: 5.

C ⁶
Claim ~~26~~⁶ (Previously added): The polynucleotide according to any one of claims ~~19-24~~¹⁻⁴ that is a DNA. ~~19-24 and 24~~

C ⁷
Claim ~~27~~⁷ (Previously added): A vector comprising the polynucleotide of any one of claims ~~19-24~~¹⁻⁴ ~~19-24 and 24~~.

⁸
Claim ~~28~~⁸ (Previously added): A host cell comprising the vector of claim ~~27~~⁷.

B ⁹
Claim ~~29~~⁹ (Currently amended): A host cell genetically engineered to contain a polynucleotide comprising the nucleotide sequence of SEQ ID NO: 5 that encodes ~~encoding~~ the amino acid sequence of SEQ ID NO: 6 in operative association with a regulatory sequence that controls expression of the polynucleotide in the host cell.

¹⁰
Claim ~~30~~¹⁰ (Previously added): A method of making a CD39L4 polypeptide comprising the steps of culturing the host cell of claim ~~28~~⁸ in suitable culture medium and isolating the polypeptide from the cell or the culture medium.

¹¹
Claim ~~31~~¹¹ (Previously added): A method of making a CD39L4 polypeptide comprising the steps of culturing the host cell of claim ~~29~~⁹ in suitable culture medium and isolating the polypeptide from the cell or the culture medium.